

Notice of variation and consolidation with introductory note

The Environmental Permitting (England & Wales) Regulations 2016

MF Bennion Limited

Rose Hill Farm Dymock Gloucestershire GL18 2EF

Variation application number

EPR/HP3398CY/V007

Permit number

EPR/HP3398CY

Rose Hill Farm Permit number EPR/HP3398CY

Introductory note

This introductory note does not form a part of the notice

Under the Environmental Permitting (England & Wales) Regulations 2016 (schedule 5, part 1, paragraph 19) a variation may comprise a consolidated permit reflecting the variations and a notice specifying the variations included in that consolidated permit.

Schedule 1 of the notice specifies the conditions that have been varied and schedule 2 comprises a consolidated permit which reflects the variations being made. All the conditions of the permit have been varied and are subject to the right of appeal.

Changes introduced by this variation notice/statutory review

The Industrial Emissions Directive (IED) came into force on 7 January 2014 with the requirement to implement all relevant Best Available Techniques (BAT) Conclusions as described in the Commission Implementing Decision. Article 21(3) of the IED requires the Environment Agency to review conditions in permits that it has issued and to ensure that the permit delivers compliance with relevant standards, within four years of the publication of updated decisions on Best Available Techniques (BAT) Conclusions. The BAT Conclusions for Waste Treatment (the BREF) was published on 17 August 2018 following a European Union wide review of BAT, implementing decision (EU) 2018/1147 of 10 August 2018.

The scope of the permit review also covers the assessment of:

- the bioaerosols monitoring and compliance with M9 bioaerosols monitoring requirements;
- the design and construction of secondary containment and storage lagoons;
- the available storage facilities and measures to reduce ammonia emissions from storage; and
- information on existing medium combustion plant and/or specified generators on site.

This variation has been issued to update some of the conditions following a statutory review of the permits in the industry sector for biowaste treatment. The opportunity has also been taken to consolidate the original permit and subsequent variations.

Brief Description of the process

MF Bennion Limited operates an Anaerobic Digestion (AD), In-Vessel Composting (IVC) and open windrow composting facility. The site is located in a rural location approximately 4km southwest of Ledbury, centred on the grid reference SO 68560 33350.

The IVC facility treats mixed green waste and food waste. Following treatment in the enclosed IVC facility, waste is then moved to the external composting windrow maturation area. The open windrow composting facility also directly accepts other green waste, in addition to maturing the outputs of the IVC.

The AD facility is located adjacent to the IVC, and treats biowaste and energy crops. The resultant biogas is then combusted using three on site combined heat and power units with an aggregated thermal input of 4.5MWth. There is also a 1 MWth auxiliary boiler which is for use in instances where the CHP units cannot be used.

The site has the permitted combined capacity of 92,900 tonnes of waste per annum for all the biowaste activities.

The site further has a biomass drying activity with a capacity of 5,000 tonnes per annum. The biomass drying takes place in a building to the west of the site. The building is divided into two separate sections which hold up to a combined 840m³ of waste. The input waste is clean wood waste only. The dried waste will be utilised in the on-site biomass boiler. All emissions to air from the three CHP units and the aforementioned biomass boiler are via a 19.5 meter high stack.

There is also a silage clamp to the east of the anaerobic digestion facility. This will store energy crops and apple waste for use in the anaerobic digestion process. The clamp is designed with an impermeable concrete base and pre-stressed concrete panel walls. The clamp has drains around the perimeter, which will then direct effluent and run-off to an existing sump.

The schedules specify the changes made to the permit.

The status log of a permit sets out the permitting history, including any changes to the permit reference number.

Description Date Comments				
Description Application EPR/HP3398CY/A001	16/12/2006	Application for a composting facility. This permit replaced EPR/KP3098CA (EAWML 48245) which was deleted under Agency modification on		
Permit determined	16/07/2007	26/9/07. Permit issued to M F Bennion (Potatoes) Limited.		
Variation Application EPR/HP3398CY/V002	Duly made 16/09/2009	Variation to increase the waste throughput and add waste types.		
Variation determined EPR/HP3398CY	09/11/2009	Varied permit issued.		
Variation Application EPR/HP3398CY/V003	Duly made 10/10/2011	Application to add Anaerobic Digestion activity.		
Variation determined EPR/HP3398CY	08/08/2012	Varied permit issued.		
Application EPR/HP3398CY/V004 (variation and consolidation)	Duly made 22/04/2015	Application to vary and update the permit to modern conditions.		
Variation determined EPR/HP3398CY	23/12/2015	Varied and consolidated permit issued in modern condition format.		
(PAS Billing ref: LP3532AT)				
Application EPR/HP3398CY/V005 (variation and consolidation)	Duly made 01/11/2017	Application to vary the permit to increase the throughput of waste, and to add: a biomass boiler, CHP unit, biogas storage vessel, biomass drying building and a silage clamp.		
Additional information received	24/01/2018	Updated site plan and Fire Prevention Plan.		
Additional information received	10/03/2018	Submission of the Wood Fuel Specification and Management Plan, updated capacity calculations, confirmation of BAT for the biogas storage vessel and additional air quality assessment reporting.		
Additional information received	23/03/2018	Additional air quality assessment data.		
Additional information received	27/04/2018	Confirmed removal of unsuitable waste codes.		
Additional information received	14/06/2018	Statement regarding residential status of property.		
Variation determined EPR/HP3398CY	20/06/2018	Varied and consolidated permit issued.		
(PAS Billing ref: UP3835YX) Regulation 61 Notice sent to Operator	21/10/2019	Regulation 61 Notice requiring information for statutory review of permit.		

Status log of the permit			
Description	Date	Comments	
Application EPR/HP3398CY/V006 (variation and consolidation)	Received 27/10/2020	Application withdrawn.	
Regulation 61 Notice response	20/04/2021	Response received from the operator.	
Application EPR/HP3398CY/V007 (variation and consolidation)	Environment Agency Initiated Variation	Statutory review of permit occasioned by Waste Treatment BAT Conclusions published on 17 August 2018.	
Environment Agency Biowaste Treatment Sector Review Permit reviewed	10/03/2022	Varied and consolidated permit issued.	
Variation determined EPR/HP3398CY			
(Billing Ref: QP3609ME)			

End of introductory note

Notice of variation and consolidation

The Environmental Permitting (England and Wales) Regulations 2016

The Environment Agency in exercise of its powers under regulation 20 of the Environmental Permitting (England and Wales) Regulations 2016 varies and consolidates

Permit number

EPR/HP3398CY

Issued to

MF Bennion Limited ("the operator")

whose registered office is

Rose Hill Dymock Gloucestershire GL18 2EF

company registration number 04223369

to operate a regulated facility at

Rose Hill Farm Dymock Gloucestershire GL18 2EF

to the extent set out in the schedules.

The notice shall take effect from 10/03/2022.

Name	Date
Louise Hann	10/03/2022

Authorised on behalf of the Environment Agency

Schedule 1

All conditions have been varied by the consolidated permit as a result of an Environment Agency initiated variation.

Schedule 2 – consolidated permit

Consolidated permit issued as a separate document.

Permit

The Environmental Permitting (England and Wales) Regulations 2016

Permit number

EPR/HP3398CY

This is the consolidated permit referred to in the variation and consolidation notice for application EPR/HP3398CY/V007 authorising,

MF Bennion Limited ("the operator"),

whose registered office is

Rose Hill Dymock Gloucestershire GL18 2EF

company registration number 04223369

to operate an installation at

Rose Hill Farm Dymock Gloucestershire GL18 2EF

to the extent authorised by and subject to the conditions of this permit.

Name	Date
Louise Hann	10/03/2022

Authorised on behalf of the Environment Agency

Conditions

Management

1.1 General management

- 1.1.1 The operator shall manage and operate the activities:
 - (a) in accordance with a written management system that identifies and minimises risks of pollution, including those arising from operations, maintenance, accidents, incidents, non-conformances, closure and those drawn to the attention of the operator as a result of complaints; and
 - (b) using sufficient competent persons and resources.
- 1.1.2 Records demonstrating compliance with condition 1.1.1 shall be maintained.
- 1.1.3 Any person having duties that are or may be affected by the matters set out in this permit shall have convenient access to a copy of it kept at or near the place where those duties are carried out.
- 1.1.4 The operator shall comply with the requirements of an approved competence scheme.

1.2 Energy efficiency

- 1.2.1 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR23), the operator shall:
 - (a) take appropriate measures to ensure that energy is used efficiently in the activities;
 - (b) review and record at least every four years whether there are suitable opportunities to improve the energy efficiency of the activities; and
 - (c) take any further appropriate measures identified by a review.

1.3 Efficient use of raw materials

- 1.3.1 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR23), the operator shall:
 - (a) take appropriate measures to ensure that raw materials and water are used efficiently in the activities;
 - (b) maintain records of raw materials and water used in the activities;
 - (c) review and record at least every four years whether there are suitable alternative materials that could reduce environmental impact or opportunities to improve the efficiency of raw material and water use; and
 - (d) take any further appropriate measures identified by a review.

1.4 Avoidance, recovery and disposal of wastes produced by the activities

- 1.4.1 The operator shall take appropriate measures to ensure that:
 - (a) the waste hierarchy referred to in Article 4 of the Waste Framework Directive is applied to the generation of waste by the activities; and
 - (b) any waste generated by the activities is treated in accordance with the waste hierarchy referred to in Article 4 of the Waste Framework Directive; and
 - (c) where disposal is necessary, this is undertaken in a manner which minimises its impact on the environment.

1.4.2 The operator shall review and record at least every four years whether changes to those measures should be made and take any further appropriate measures identified by a review.

Operations

2.1 Permitted activities

- 2.1.1 The operator is only authorised to carry out the activities specified in schedule 1 table S1.1 (the "activities").
- 2.1.2 The activities shall be undertaken in accordance with best available techniques.
- 2.1.3 All process plant and equipment shall be commissioned, operated and maintained and shall be fully documented and recorded in accordance with the manufacturer's recommendations.
- 2.1.4 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR23) Waste authorised by this permit shall be clearly distinguished from any other waste on the site.

2.2 The site

2.2.1 The activities shall not extend beyond the site, being the land shown edged in red on the site plan at schedule 7 to this permit.

2.3 Operating techniques

- 2.3.1 The activities shall, subject to the conditions of this permit, be operated using the techniques and in the manner described in the documentation specified in schedule 1, table S1.2, unless otherwise agreed in writing by the Environment Agency.
- 2.3.2 If notified by the Environment Agency that the activities are giving rise to pollution, the operator shall submit to the Environment Agency for approval within the period specified, a revision of any plan or other documentation ("plan") specified in schedule 1, table S1.2 or otherwise required under this permit which identifies and minimises the risks of pollution relevant to that plan, and shall implement the approved revised plan in place of the original from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 2.3.3 Any raw materials or fuels listed in schedule 2 tables S2.1 and S2.2 shall conform to the specifications set out in that table.
- 2.3.4 Waste shall only be accepted if:
 - (a) it is of a type and quantity listed in schedule 2 tables S2.3, S2.4, S2.5 and S2.6; and
 - (b) it conforms to the description in the documentation supplied by the producer and holder.
 - (c) the facility has sufficient free capacity to store and treat the waste.
- 2.3.5 The operator shall ensure that where waste produced by the activities is sent to a relevant waste operation, that operation is provided with the following information, prior to the receipt of the waste:
 - (a) the nature of the process producing the waste;
 - (b) the composition of the waste;
 - (c) the handling requirements of the waste;
 - (d) the hazardous property associated with the waste, if applicable; and
 - (e) the waste code of the waste.
- 2.3.6 The operator shall ensure that where waste produced by the activities is sent to a landfill site, it meets the waste acceptance criteria for that landfill.

- 2.3.7 Waste pre-acceptance and acceptance procedures shall be undertaken in accordance with best available techniques.
- 2.3.8 For the following activities referenced in schedule 1, table S1.1 (AR4):
 - (a) each MCP must be operated in accordance with the manufacturer's instructions and records must be made and retained to demonstrate this.
 - (b) the operator must keep periods of start-up and shut-down of each MCP as short as possible.
 - (c) there must be no persistent emission of 'dark smoke' as defined in section 3(1) of the Clean Air Act 1993.

2.4 Improvement programme

- 2.4.1 The operator shall complete the improvements specified in schedule 1 table S1.3 by the date specified in that table unless otherwise agreed in writing by the Environment Agency.
- 2.4.2 Except in the case of an improvement which consists only of a submission to the Environment Agency, the operator shall notify the Environment Agency within 14 days of completion of each improvement.

2.5 Pre-operational conditions

The operations specified in schedule 1, table S1.4 shall not commence until the measures specified in that table have been completed.

Emissions and monitoring

3.1 Emissions to water, air or land

- 3.1.1 There shall be no point source emissions to water, air or land except from the sources and emission points listed in schedule 3 table S3.1.
- 3.1.2 The limits given in schedule 3 shall not be exceeded.
- 3.1.3 Periodic monitoring shall be carried out at least once every 5 years for groundwater and 10 years for soil, unless such monitoring is based on a systematic appraisal of the risk of contamination.

3.2 Emissions of substances not controlled by emission limits

- 3.2.1 Emissions of substances not controlled by emission limits (excluding odour) shall not cause pollution. The operator shall not be taken to have breached this condition if appropriate measures, including, but not limited to, those specified in any approved emissions management plan, have been taken to prevent or where that is not practicable, to minimise, those emissions.
- 3.2.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution, submit to the Environment Agency for approval within the period specified, an emissions management plan which identifies and minimises the risks of pollution from emissions of substances not controlled by emission limits;
 - (b) implement the approved emissions management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.
- 3.2.3 All liquids in containers, whose emission to water or land could cause pollution, shall be provided with secondary containment, unless the operator has used other appropriate measures to prevent or where that is not practicable, to minimise, leakage and spillage from the primary container.

3.2.4 The operator shall implement a leak detection and repair (LDAR) programme to detect and mitigate the release of volatile organic compounds, including methane from diffuse sources.

3.3 Odour

3.3.1 Emissions from the activities shall be free from odour at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved odour management plan, to prevent or where that is not practicable to minimise the odour.

3.4 Noise and vibration

- 3.4.1 Emissions from the activities shall be free from noise and vibration at levels likely to cause pollution outside the site, as perceived by an authorised officer of the Environment Agency, unless the operator has used appropriate measures, including, but not limited to, those specified in any approved noise and vibration management plan to prevent or where that is not practicable to minimise the noise and vibration.
- 3.4.2 The operator shall:
 - (a) if notified by the Environment Agency that the activities are giving rise to pollution outside the site due to noise and vibration, submit to the Environment Agency for approval within the period specified, a noise and vibration management plan which identifies and minimises the risks of pollution from noise and vibration;
 - (b) implement the approved noise and vibration management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.5 Monitoring

- 3.5.1 The operator shall, unless otherwise agreed in writing by the Environment Agency, undertake the monitoring specified in the following tables in schedule 3 to this permit:
 - (a) point source emissions specified in tables S3.1;
 - (b) process monitoring specified in table S3.2.
- 3.5.2 The operator shall maintain records of all monitoring required by this permit including records of the taking and analysis of samples, instrument measurements (periodic and continual), calibrations, examinations, tests and surveys and any assessment or evaluation made on the basis of such data.
- 3.5.3 Monitoring equipment, techniques, personnel and organisations employed for the emissions monitoring programme and the environmental or other monitoring specified in condition 3.5.1 shall have either MCERTS certification or MCERTS accreditation (as appropriate), where available, unless otherwise agreed in writing by the Environment Agency.
- 3.5.4 Permanent means of access shall be provided to enable sampling/monitoring to be carried out in relation to the emission points specified in schedule 3 tables S3.1 and S3.2 unless otherwise agreed in writing by the Environment Agency.
- 3.5.5 In the case of new medium combustion plant, the first monitoring measurements shall be carried out within four months of the issue date of the permit or the date when the MCP is first put into operation, whichever is later.
- 3.5.6 Monitoring shall not take place during periods of start-up or shut-down.

3.6 Pests

3.6.1 The activities shall not give rise to the presence of pests which are likely to cause pollution, hazard or annoyance outside the boundary of the site. The operator shall not be taken to have breached this

condition if appropriate measures, including, but not limited to, those specified in any approved pests management plan, have been taken to prevent or where that is not practicable, to minimise the presence of pests on the site.

- 3.6.2 The operator shall:
 - (a) only use approved products for pest control;
 - (b) treat pest infestations promptly;
 - (c) reject pest-infected incoming waste;
 - (d) if notified by the Environment Agency, submit to the Environment Agency for approval within the period specified, a pests management plan which identifies and minimises risks of pollution from pests;
 - (e) implement the pests management plan, from the date of approval, unless otherwise agreed in writing by the Environment Agency.

3.7 Fire prevention

- 3.7.1 The operator shall take all appropriate measures to prevent fires on site and minimise the risk of pollution from them including, but not limited to, those specified in any approved fire prevention plan.
- 3.7.2 The operator shall undertake a DSEAR assessment and maintain an accident management plan.

Information

4.1 Records

- 4.1.1 All records required to be made by this permit shall:
 - (a) be legible;
 - (b) be made as soon as reasonably practicable;
 - (c) if amended, be amended in such a way that the original and any subsequent amendments remain legible, or are capable of retrieval; and
 - (d) be retained, unless otherwise agreed in writing by the Environment Agency, for at least 6 years from the date when the records were made, or in the case of the following records until permit surrender:
 - (i) off-site environmental effects; and
 - (ii) matters which affect the condition of the land and groundwater.
- 4.1.2 The operator shall keep on site all records, plans and the management system required to be maintained by this permit, unless otherwise agreed in writing by the Environment Agency.

4.2 Reporting

- 4.2.1 The operator shall send all reports and notifications required by the permit to the Environment Agency using the contact details supplied in writing by the Environment Agency.
- 4.2.2 For the following activities referenced in schedule 1, table S1.1 (AR1 to AR23), a report or reports on the performance of the activities over the previous year shall be submitted to the Environment Agency by 31 January (or other date agreed in writing by the Environment Agency) each year. The report(s) shall include as a minimum:
 - (a) a review of the results of the monitoring and assessment carried out in accordance with the permit including an interpretive review of that data;

- (b) the annual production/treatment data set out in schedule 4 table S4.2; and
- (c) the performance parameters set out in schedule 4 table S4.3 using the forms specified in table S4.4 of that schedule.
- 4.2.3 Within 28 days of the end of the reporting period the operator shall, unless otherwise agreed in writing by the Environment Agency, submit reports of the monitoring and assessment carried out in accordance with the conditions of this permit, as follows:
 - (a) in respect of the parameters and emission points specified in schedule 4 table S4.1;
 - (b) for the reporting periods specified in schedule 4 table S4.1 and using the forms specified in schedule 4 table S4.4; and
 - (c) giving the information from such results and assessments as may be required by the forms specified in those tables.
- 4.2.4 The operator shall, unless notice under this condition has been served within the preceding four years, submit to the Environment Agency, within six months of receipt of a written notice, a report assessing whether there are other appropriate measures that could be taken to prevent, or where that is not practicable, to minimise pollution.
- 4.2.5 Within 1 month of the end of each quarter, the operator shall submit to the Environment Agency using the form made available for the purpose, the information specified on the form relating to the site and the waste accepted and removed from it during the previous quarter.
- 4.2.6 The operator shall keep records of non-waste materials leaving the site, including the type of material, the batch number, the date of export off-site and the tonnage exported on that date. These records shall be maintained for at least 2 years.
- 4.2.7 The operator shall submit an annual report detailing the efficiency of removal of non-compostable and non-digestible materials from feedstock prior to processing and the level of contamination in the final recovered digestate and/or compost.

4.3 Notifications

- 4.3.1 In the event:
 - (a) that the operation of the activities gives rise to an incident or accident which significantly affects or may significantly affect the environment, the operator must immediately—
 - (i) inform the Environment Agency,
 - (ii) take the measures necessary to limit the environmental consequences of such an incident or accident, and
 - (iii) take the measures necessary to prevent further possible incidents or accidents;
 - (b) of a breach of any permit condition the operator must immediately—
 - (i) inform the Environment Agency, and
 - (ii) take the measures necessary to ensure that compliance is restored within the shortest possible time;
 - (c) of a breach of permit condition which poses an immediate danger to human health or threatens to cause an immediate significant adverse effect on the environment, the operator must immediately suspend the operation of the activities or the relevant part of it until compliance with the permit conditions has been restored.
- 4.3.2 Any information provided under condition 4.3.1 (a)(i), or 4.3.1 (b)(i) where the information relates to the breach of a limit specified in the permit, shall be confirmed by sending the information listed in schedule 5 to this permit within the time period specified in that schedule.

- 4.3.3 Following the detection of an issue listed in condition 4.3.1, the operator shall review and revise the management system and implement any changes as necessary to minimise the risk of reoccurrence of the issue.
- 4.3.4 Where the Environment Agency has requested in writing that it shall be notified when the operator is to undertake monitoring and/or spot sampling, the operator shall inform the Environment Agency when the relevant monitoring and/or spot sampling is to take place. The operator shall provide this information to the Environment Agency at least 14 days before the date the monitoring is to be undertaken.
- 4.3.5 The Environment Agency shall be notified within 14 days of the occurrence of the following matters, except where such disclosure is prohibited by Stock Exchange rules:

Where the operator is a registered company:

- (a) any change in the operator's trading name, registered name or registered office address; and
- (b) any steps taken with a view to the operator going into administration, entering into a company voluntary arrangement or being wound up.

Where the operator is a corporate body other than a registered company:

- (a) any change in the operator's name or address; and
- (b) any steps taken with a view to the dissolution of the operator.

In any other case:

- (a) the death of any of the named operators (where the operator consists of more than one named individual);
- (b) any change in the operator's name(s) or address(es); and
- (c) any steps taken with a view to the operator, or any one of them, going into bankruptcy, entering into a composition or arrangement with creditors, or, in the case of them being in a partnership, dissolving the partnership.
- 4.3.6 Where the operator proposes to make a change in the nature or functioning, or an extension of the activities, which may have consequences for the environment and the change is not otherwise the subject of an application for approval under the Regulations or this permit:
 - (a) the Environment Agency shall be notified at least 14 days before making the change; and
 - (b) the notification shall contain a description of the proposed change in operation.
- 4.3.7 The Environment Agency shall be given at least 14 days' notice before implementation of any part of the site closure plan.
- 4.3.8 The operator shall notify the Environment Agency as soon as is practicable, in writing of any change of the medium combustion plant.

4.4 Interpretation

- 4.4.1 In this permit the expressions listed in schedule 6 shall have the meaning given in that schedule.
- 4.4.2 In this permit references to reports and notifications mean written reports and notifications, except where reference is made to notification being made "immediately", in which case it may be provided by telephone.

Schedule 1 – Operations

Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR1 (AD operations)	S5.4 A (1) (b) (i) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day (or 100 tonnes per day if the only waste treatment activity is anaerobic digestion) involving biological treatment.	R3: Recycling/reclamation of organic substances which are not used as solvents	From receipt of waste through to digestion and recovery of by-products (digestate). Anaerobic digestion of waste in 2 tanks followed by burning of biogas produced from the process. Waste types suitable for acceptance are limited to those specified in Table S2.3. There shall be less than 10 tonnes per day of animal carcasses or animal wastes or both in aggregate.
	Directly Associated A	-	
AR2 (AD operations)	Storage of waste pending recovery or disposal	R13: Storage of waste pending the operations numbered R1 and R3 (excluding temporary storage, pending collection, on the site where it is produced)	From the receipt of waste to despatch for anaerobic digestion or despatch off site for recovery and/or disposal. Storage of waste in an enclosed building fitted with appropriate odour abatement and on an impermeable surface with sealed drainage. Storage of waste within 2 storage tanks prior to treatment. Waste types suitable for acceptance are limited to those specified in Table S2.3
AR3 (AD operations)	Physical treatment for the purpose of recycling	R3: Recycling/reclamation of organic substances which are not used as solvents	From the receipt of waste to despatch for anaerobic digestion or despatch off site for recovery. Pre-treatment of waste in enclosed building and on impermeable surface with sealed drainage system including shredding, sorting, screening, compaction, baling, mixing and maceration. Post-treatment of digestate in an enclosed building and on an impermeable surface with sealed drainage system, including screening to remove contraries, centrifuge or pressing and addition of thickening agents (polymers) or drying. Heat treatment (pasteurisation) of waste in 1 tank for the purpose of recovery. Gas cleaning by biological or chemical scrubbing. Waste types suitable for acceptance are limited to those specified in Table S2.3.

AR4 (AD operations)	Steam and electrical power supply	R1:Use principally as a fuel to generate energy	From the receipt of biogas produced at the on-site anaerobic digestion process to combustion with the release of combustion gases. Combustion of biogas in 3 combined heat and power (CHP) engines with an aggregated thermal input of less than 4.5 MWth. Combustion of biogas in auxiliary boiler with an aggregated thermal input of 1 MWth. Minimum stack exit velocity of 15 m/s to ensure effective plume breakaway.
AR5 (AD operations)	Raw material storage	Storage of raw materials including lubrication oil, antifreeze, ferric chloride, activated carbon.	From the receipt of raw materials to despatch for use within the facility
AR6 (AD operations)	Gas storage	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	From the receipt of biogas produced at the on-site anaerobic digestion process to despatch for use within the facility. Gas storage and drying. Storage of biogas produced from on-site anaerobic digestion of permitted waste in 1 stand-alone tank or roof space of digester.
AR7 (AD operations)	Digestate storage	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	From the receipt of digestate produced from the on-site anaerobic digestion process to despatch for use off-site. Storage of liquid digestate in 2 lagoons.
AR8 (AD operations)	Surface water collection and storage	Collection and storage of uncontaminated roof water is directed towards sumps to be used within the process.	From the collection of uncontaminated roof and site surface water from non- operational areas only to re-use within the facility or discharge off-site.
Table S1.1 Ac	tivities in relation to In	Vessel Composting op	peration
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR9 (IVC Operations)	S5.4 A (1) (b) (i) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes	R3: Recycling/reclamation of organic substances which are not used as solvents	From receipt of waste through to composting and recovery of by-products. Composting of waste under aerobic conditions in closed composting reactors or in closed vessels/buildings fitted with appropriate odour abatement.

	per day involving biological treatment.		The storage, physical treatment, composting and maturation of wastes under anaerobic conditions shall be prevented, or where that is not practicable, minimised. Waste types suitable for acceptance are limited to those specified in Table S2.4.
	Directly Associated A	ctivity for IVC operatio	ons
AR10 (IVC Operations)	Storage of waste pending recovery or disposal	R13: Storage of waste pending the R3 operation (excluding temporary storage, pending collection, on the site where it is produced)	From the receipt of waste to despatch for composting or despatch off site for recovery and/or disposal. Storage of waste in an enclosed building fitted with appropriate odour abatement and on an impermeable surface with sealed drainage. Waste types suitable for acceptance are limited to those specified in Table S2.4.
AR11 (IVC Operations)	Physical treatment for the purposes of recycling	R3: Recycling/reclamation of organic substances which are not used as solvents	From the receipt of waste to despatch for composting or despatch off site for recovery. Pre-treatment of waste prior to composting in an enclosed building and on an impermeable surface including shredding and screening. Post-treatment of processed compost in an enclosed building and on an impermeable surface including screening to remove contraries. Heat treatment (pasteurisation) for the purpose of recovery. Waste types suitable for acceptance are limited to those specified in Table S2.4.
AR12 (IVC Operations)	Raw material storage	Storage of raw materials.	From the receipt of raw materials to despatch for use within the facility.
AR13 (IVC Operations)	Compost storage	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	From the receipt of processed compost produced at the facility to despatch for use off-site. Storage of processed compost in an enclosed building fitted with appropriate odour abatement and on an impermeable surface, prior to transfer off-site or to the windrow operations.
AR14 (IVC Operations)	Process water collection and storage	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	From the receipt of compost leachate produced at the facility to despatch for treatment at the facility or despatch off site for recovery or disposal. Collection and storage of compost liquor/leachate in 1 storage tank.
AR15 (IVC Operations)	Surface water collection and storage	Collection and storage of	From the collection of uncontaminated roof and site surface water from non-

		uncontaminated roof and site surface water from non-operational areas.	operational areas only to re-use within the facility or discharge off-site.
Table S1.1 Ac	tivities – In relation to e	open windrow compos	ting
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR16 (Windrow operations)	S5.4 A (1) (b) (i) Recovery or a mix of recovery and disposal of non-hazardous waste with a capacity exceeding 75 tonnes per day involving biological treatment.	R3: Recycling/reclamation of organic substances which are not used as solvents	From receipt of waste through to composting and recovery of by-products. Composting of waste, including pasteurised ABPR compliant output from the IVC process, under aerobic conditions in open systems such as outdoor turned windrows on impermeable surface with sealed drainage system.
			Waste types suitable for acceptance are limited to those specified in Table S2.5.
	Directly Associated A	ctivity	
(Windrow pending recovery or operations) disposal operation temporary pending c	pending recovery or	R13: Storage of waste pending the R3 operation (excluding	From the receipt of waste to despatch for composting or despatch off site for recovery and/or disposal.
	temporary storage, pending collection, on the site where it is	Storage of waste on an impermeable surface with sealed drainage.	
		produced).	Waste types suitable for acceptance are limited to those specified in Table S2.5.
AR18 (Windrow operations)	Physical treatment for the purpose of recycling	R3: Recycling/reclamation of organic substances	From the receipt of waste to despatch for composting or despatch off site for recovery.
		which are not used as solvents.	Pre-treatment of waste prior to composting on an impermeable surface including shredding and screening.
			Post-treatment of processed compost on an impermeable surface including screening to remove contraries.
			Waste types suitable for acceptance are limited to those specified in Table S2.5.
AR19 (Windrow operations)	Raw material storage	Storage of raw materials including lubrication oil, antifreeze.	From the receipt of raw materials to despatch for use within the facility.
AR20 (Windrow operations)	Compost storage	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	From the receipt of processed compost produced at the facility to despatch for use off-site. Storage of processed compost on an impermeable surface.

AR21 (Windrow operations)	Process water collection and storage	R13: Storage of waste pending any of the operations numbered R1 to R12 (excluding temporary storage, pending collection, on the site where it is produced)	Compost liquor/leachate in a sealed system. Collection and storage of process water.
AR22 (Windrow operations)	Surface water collection and storage	Collection and storage of uncontaminated roof and site surface water.	From the collection of uncontaminated roof and site surface water from non- operational areas only to re-use within the facility or discharge off-site.
Table S1.1 Ac	tivities – Part B	-	
Activity reference	Activity listed in Schedule 1 of the EP Regulations	Description of specified activity and WFD Annex I and II operations	Limits of specified activity and waste types
AR23 (Waste wood boiler)	Section 5.1 B (a) (v) Incineration in a small waste incineration plant with an aggregate capacity of 50 kilogrammes or more per hour of wood waste	Operation of a biomass boiler with an aggregated thermal rated input not exceeding 0.65 MWth, for site heating requirements, burning grade A 'clean' recycled waste wood and biomass fuel.	From receipt of raw materials and waste, to release of combustion products to air and associated wastes removed from site. Raw materials and fuel as specified in Table S2.2. Waste types as specified in Table S2.6 from sources agreed in writing with the Environment Agency. Waste shall only be grade A waste wood.
Activity reference	Description of activiti operations	es for waste	Limits of activities
AR24	Biomass drying activitie R13: Storage of waste operations numbered F temporary storage, per site where it is produce R3: Recycling/reclamat substances which are r	pending any of the R1 to R12 (excluding nding collection, on the ed) tion of organic	Treatment operations shall be limited to heat treatment of waste for the purpose of recovery. Waste types as specified in Table S2.6.

Table S1.2 Operating techniques			
Description	Parts	Date Received	
Variation Application EPR/HP3398CY/V003	Sections 3a and 3b, of the application document in response to section 3 – technical standards, Part B4 of the application form.	Duly made 10/10/2011	
Response to improvement condition IC3	Accident Management Plan - For the IVC operations.	23/05/2012	
Response to improvement condition IC3	Rosehill biogas - Accident Management Plan V1.1 - For the AD and biogas operations	29/05/2013	
Response to Schedule 5 Notice dated 24/09/2015	Non-technical summary.	09/10/2015	
Variation Application EPR/HP3398CY/V005	Part C2 and C3 of the application form and referenced supporting documents.	Duly made 01/11/2017	
Response to Schedule 5 Notice dated 16/11/2017	Updated Fire Prevention Plan (reference: Rosehill Recycling In-Vessel External Windrow Composting and Biomass Drying Facility – Fire Prevention Plan).	24/01/2018	
	Updated site plan (reference: 2-Rosehill Permit Site- Rev23Jan2018).		
Response to Schedule 5 Notice dated	Response Sch5-3.1, Sch5-3.2, Sch5-3.3, Sch5-3.4, Sch5- 3.5, Sch5-3.6 and referenced appendices.	10/03/2018	
27/02//2018 Wood-fuel & Animal Bedding Quality Management Plan (reference: Wood-fuel & Animal Bedding Quality Management Plan Reviewed version 1.0).			
Additional Information	Statement on approach to change in sensitive receptor status (email reference: Application Variation - Statement regarding residents of the property).	14/06/2018	
Response to Regulation 61 Notice dated 21/10/2019	 Annex 1 Returns Spreadsheet Compliance and operating techniques identified in response to BAT Conclusions 1 to 8, 10 to 24 and 33 to 38 in the Waste Treatment BREF published on 17 August 2018. 	Received 20/04/2021	

Table S1.3 Improvement programme requirements			
Reference	Requirement	Date	
IC1	The operator shall submit a revised odour management plan for the IVC and Windrow operations to the Environment Agency for written approval. The plan shall take into account the appropriate measures for odour control specified in section 2.2.6 of Sector Guidance Note IPPC S5.06 – <i>Guidance for the Treatment of Hazardous and Non Hazardous</i> <i>Waste</i> . The plan shall also incorporate all the required detailed information as specified in the Environment Agency's Horizontal Guidance H4 – <i>Odour Management</i> . The plan must contain dates for implementation of individual measures.	Completed	

Reference	Requirement	Date
IC2	The operator shall develop and submit for the IVC and Windrow composting operations a fire prevention plan to the Environment Agency in writing. The plan shall take into account the required information as specified in the Environment Agency's technical guidance, Fire prevention plans (version 2, dated March 2015). The appropriate measures for fire prevention shall include:	Completed
	the management of storage of feedstock, product and/or waste piles	
	 measures to prevent, detect and contain fires; and 	
	the management of firewaters.	
	The notification requirements of condition 2.4.2 will be deemed to have been complied with on submission of the written proposals.The operator shall implement the procedures and measures in accordance with the Environment Agency's written approval.	
IC3	The Operator shall produce, and submit for approval and subsequent implementation, an Accident Management Plan for the IVC and Windrow operations. The procedures must contain dates for implementation of individual measures.	Completed
Improvemen	t condition for progress report to achieve BAT-AELs	
IC4	The operator shall submit, for approval by the Environment Agency, a report setting out progress to achieving the Best Available Techniques Conclusion Associated Emission Levels (BAT-AELs) where BAT is currently not achieved, but will be achieved before 17 August 2022. The report shall include, but not be limited to, the following:	Progress report three monthly intervals from date of permit issue:
	 Current performance against the BAT-AEL. Methodology for reaching the BAT-AEL. Associated targets /timelines for reaching compliance by 17 August 2022. Any alterations to the initial plan (in progress reports). 	10/06/2022
	The report shall address the BAT Conclusions for Waste Treatment with respect to the following:	
	• BAT 34 Table 6.7 (compliance with BAT-AEL for channelled NH ₃ , emissions to air from the biological treatment of waste)	
	Refer to BAT Conclusions for a full description of the BAT requirement.	
Improvemen	t condition for progress report to achieve Narrative BAT	
IC5	The operator shall submit, for approval by Environment Agency, a report setting out progress to achieving the 'Narrative' BAT where BAT is currently not achieved, but will be achieved before 17 August 2022. The report shall include, but not be limited to, the following:	Progress report three monthly intervals from date of permit
	 Methodology for achieving BAT Associated targets /timelines for reaching compliance by 17 August 2022 Any alterations to the initial plan (in progress reports). 	issue: 10/06/2022
	The report shall address the BAT Conclusions for Waste Treatment with respect to BAT 1, 2, 3, 4, 12, 14, 19, 22, 23, 24, 33, 34, 35, and 37.	
Improvemen	t condition for primary containment	I
IC6	The operator shall submit a written 'primary containment plan' and shall	17/08/2022 or
	obtain the Environment Agency's written approval to it. The plan shall	other date as

Reference	Requirement	Date
Nelerence	contain the results of an inspection and program of works undertaken by a qualified engineer, and shall assess the extent design specification and condition of primary containment systems where polluting liquids and solids are being stored, treated, and/or handled.	agreed in writing with the Environment Agency
	The plan shall include:	
	 an assessment of the physical condition of all primary containment systems (storage and treatment vessels) using a Written Scheme of Examination and their suitability for providing primary containment when subjected to the dynamic and static loads caused by catastrophic tank failure; a program of works with timescales for the implementation of individual improvement measures necessary to demonstrate that the primary containment is fit for purpose or alternative appropriate measures to ensure all polluting materials will be contained on site; and a preventative maintenance and inspection regime 	
	The plan shall be implemented in accordance with the Environment Agency's written approval.	
Improvemen	t condition for secondary containment design	
IC7	The operator shall submit a written 'secondary and tertiary containment plan' and shall obtain the Environment Agency's written approval to it. The plan shall contain the results of an inspection and program of works undertaken by a competent structural engineer, in accordance with the risk assessment methodology detailed within CIRIA C736 (2014) guidance, of the condition and extent of secondary and tertiary containment systems where all polluting liquids and solids are being stored, treated, and/or handled.	17/08/2022 or other date as agreed in writing with the Environment Agency
	The inspection shall consider, but not be limited to, the storage vessels, bunds, loading and unloading areas, transfer pipework/pumps, temporary storage areas, and liners underlying the site.	
	The plan shall include:	
	 an assessment of the physical condition of all secondary and/or tertiary containment systems, using a Written Scheme of Examination and their suitability for providing containment when subjected to the dynamic and static loads caused by catastrophic tank failure; a program of works with timescales for the implementation of individual improvement measures necessary for the secondary and/or tertiary containment systems to comply with CIRIA C736 	
	(2014) guidance, or equivalent.	
	• a preventative maintenance and inspection regime The plan shall be implemented in accordance with the Environment Agency's written approval.	
Improvemen	t condition for storage lagoon design	1
IC8	The operator shall submit a written 'storage lagoon plan' and shall obtain the Environment Agency's written approval to it. The plan shall	17/08/2022 or other date as

Reference	Requirement	Date
	 contain the results of an inspection and program of works undertaken by a competent structural engineer, in accordance with the risk assessment methodology detailed within CIRIA C736 (2014) guidance, of the condition and extent of the site lagoon(s) where digestate or compost leachate are being stored, treated, and/or handled. The inspection shall consider, but not be limited to, the transfer pipework/pumps, and liners underlying the storage lagoon. The plan shall include: 	agreed in writing with the Environment Agency
	 an assessment of the physical condition of the storage lagoon, using a Written Scheme of Examination and the suitability for providing containment when subjected to the dynamic and static loads caused by the digestate or compost leachate; a program of works with timescales for the implementation of individual improvement measures necessary for the storage lagoon to comply with CIRIA C736 (2014) guidance, or equivalent. 	
	• a preventative maintenance and inspection regime The plan shall be implemented in accordance with the Environment Agency's written approval.	
Improvemen	t condition for lagoon cover and operational storage capacity	
IC9	The operator shall provide a written "digestate /compost liquor storage plan" and shall obtain the Environment Agency's written approval to it. The plan shall contain the results of a review of the current storage of digestate and/or compost liquor produced from site operations. The review shall examine site contingency arrangements in the event of closed landspreading periods, extreme weather conditions, site closure, disease outbreak etc.	17/08/2022 or other date as agreed in writing with the Environment Agency
	The storage plan shall include:	
	 Existing cover arrangements on storage lagoons used to store digestate and/or compost liquor to minimise odour, ammonia and methane emissions; 	
	Additional storage capacity on-site (at least 2 months storage) and storage capacity off-site;	
	 Identification of alternative outlets for digestate and/or compost liquor – identify companies /permitted waste facilities that would be able to manage the digestate and/or liquor output(s), taking into account their permits and capacity constraints. 	
	The plan shall be implemented in accordance with the Environment Agency's written approval.	
Improvemen	t condition for review of effectiveness of abatement plant	
IC10	The operator shall carry out a review of the abatement plant on site, in order to determine whether the measures have been effective and adequate to prevent and where not possible minimise emissions released to air including but not limited to odour and ammonia.	17/08/2022 or other date as agreed in writing with the
	The operator shall submit a written report to the Environment Agency following this review for assessment and approval.	Environment Agency

Reference	Requirement	Date
	The report shall include but not limited to the following aspects:	
	Full investigation and characterisation of the waste gas streams.	
	Abatement stack monitoring results (not limited to odour and ammonia)	
	Abatement process monitoring results (not limited to odour and ammonia)	
	 Details of air quality quantitative impact assessment including modelling and a proposal for site-specific "action levels" (not limited to odour concentration, hydrogen sulphide and ammonia). 	
	Odour monitoring results at the site boundary	
	Records of odour complaints and odour related incidents	
	Recommendations for improvement including the replacement or upgrading the abatement plant	
	Timescales for implementation of improvements to the abatement plant	
	The operator shall implement the improvements in line with the timescales as approved by the Environment Agency.	
Improvemen	t condition for review of abatement plant design	
IC11	The operator shall submit to the Environment Agency a written review report of the design details of the site ventilation system and abatement plant and obtain the Environment Agency's written approval to it.	17/08/2022 or other date as agreed in writin
	The report shall include but not limited to:	with the
	a) Ventilation design performance criteria for effective fugitive odorous emission control	Environment Agency
	 b) Design of the abatement systems that will ensure compliance with the odour condition 3.3. The report shall include a demonstration (whether by a detailed review of technical papers or by trial results) that all odorous chemical compounds and their loading rates expected in the relevant air streams have been considered in the design; and supporting evidence that the odorous compounds will be controlled and/or abated either by operating techniques or by the proposed abatement systems. 	
	 c) Design alarms and triggers for each relevant scenario to alert the operator to the malfunction of both ventilation and abatement systems. The report should further list all relevant contingency mitigation actions to minimise risk of elevated odour pollution from the installation linked to each malfunction scenario and detail the actions to restore systems to normal operating conditions for effective odour control. 	
	Ventilation and abatement systems should be designed by suitably qualified named engineers who can supervise and sign-off on construction quality assurance.	

Table S1.3 Improvement programme requirements		
Reference	Requirement	Date
IC12	The operator shall establish the methane emissions in the exhaust gas from engines burning biogas and compare these to the manufacturer's specification and benchmark levels agreed in writing with the Environment Agency. The operator shall, as part of the methane leak detection and repair (LDAR) programme, develop proposals to assess the potential for methane slip and take corrective actions where emissions above the manufacturer's specification or appropriate benchmark levels are identified.	17/08/2022 or other date as agreed in writing with the Environment Agency

Table S1.4 Pre-operational measures for future development		
Reference	Operation	Pre-operational measures
PO1	Use of the waste wood biomass boiler (Activity Reference AR23).	The operator shall submit a report to the Environment Agency stating the specification of the biomass boiler, and shall demonstrate that the air quality assessment (reference: An Assessment using Dispersion Modelling of the Impact of Emissions from the Combined Heat and Power Units at Rosehill Farm, Dymock, Ledbury, Gloucestershire, dated: 7 February 2017) is representative of the emissions from the boiler installed at the site.
		The operator shall further provide a revised Wood-fuel & Animal Bedding Quality Management Plan which confirms the agreed sources of waste wood.
		The biomass boiler shall not be used unless the Environment Agency has given prior written permission under this condition.

Schedule 2 – Waste types, raw materials and fuels

Table S2.1 Raw materials and fuels		
Raw materials and fuel description Specification		
Vegetable matter (energy crops)	Substantially free of non-vegetable matter.	
Maize silage	Substantially free of non-vegetable matter.	
Fuel oil	Sulphur content not exceeding 0.1% by mass.	

Table S2.2 Raw materials and fuels		
Raw materials and fuel description	Specification	
Fuel for biomass boiler unit	Biomass chips or pellets comprising virgin timber, straw, miscanthus, grade A waste wood; or a combination of these.	

Table S2.3 Permitte	d waste types and quantities for anaerobic digestion	
Maximum quantity	Annual throughput shall not exceed 27,900 tonnes	
Exclusions	 Wastes having any of the following characteristics shall not be accepted: biodegradable wastes that is significantly contaminated with non- compostable or digestible contaminants, in particular plastic and litter shall be no more than 5% w/w and shall be as low as reasonably practicable by 31 December 2025. wastes containing wood-preserving agents or other biocides and post- consumer wood wastes containing persistent organic pollutants wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019 manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013. pest infested waste 	
Waste code	Description	
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing	
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing	
02 01 01	sludges from washing and cleaning - vegetables, fruit and other crops	
02 01 02	animal tissue waste	
02 01 03	plant tissue waste	
02 01 06	animal faeces, urine and manure (including spoiled fully biodegradable animal bedding)	
02 01 07	wastes from forestry	
02 01 99	wastes not otherwise specified – spent mushroom compost from commercial mushroom growing only	
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin	

	d waste types and quantities for anaerobic digestion	
Maximum quantity	Annual throughput shall not exceed 27,900 tonnes	
Exclusions	 Wastes having any of the following characteristics shall not be accepted: biodegradable wastes that is significantly contaminated with non- compostable or digestible contaminants, in particular plastic and litter shall be no more than 5% w/w and shall be as low as reasonably practicable by 31 December 2025. wastes containing wood-preserving agents or other biocides and post- consumer wood wastes containing persistent organic pollutants wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019 manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013. pest infested waste 	
Waste code	Description	
02 02 01	sludges from washing and cleaning, peeling, centrifuging and separation including wash waters and sludges from secondary food processing or the cook chill sector	
02 02 02	animal tissue waste	
02 02 03	materials unsuitable for consumption or processing including animal gut contents	
02 02 04	sludges from on-site effluent treatment including sludges from gelatine production	
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation	
02 03 01	sludges from washing, cleaning peeling, centrifuging and separation (including sludge from production of edible fats and oils, seasoning residues, molasses residues, residues from production of potato, corn or rice starch only)	
02 03 04	materials unsuitable for consumption or processing (including waste from production of edible fats and oils, seasoning residues, molasses residues, residues from production of potato, corn or rice starch only)	
02 03 05	sludges from on-site effluent treatment (including sludge from production of edible fats and oils, seasoning residues, molasses residues, residues from production of potato, corn or rice starch only)	
02 04	wastes from sugar processing	
02 04 03	sludges from on-site effluent treatment – sludges from the processing of sugar	
02 05	wastes from the dairy products industry	
02 05 01	materials unsuitable for consumption or processing – biodegradable wastes derived from the processing of dairy products only	
02 05 02	sludges from on-site effluent treatment	
02 06	wastes from the baking and confectionery industry	
02 06 01	materials unsuitable for consumption or processing – biodegradable wastes from the processing of materials used in bakery and confectionery	
02 06 03	sludges from on-site effluent treatment – sludges from the processing of materials used in baking and confectionery	
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)	
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials – biodegradable wastes from the processing of the raw materials used in the	

Maximum quantity	Annual throughput shall not exceed 27,900 tonnes
Exclusions	 Wastes having any of the following characteristics shall not be accepted: biodegradable wastes that is significantly contaminated with non- compostable or digestible contaminants, in particular plastic and litter shall be no more than 5% w/w and shall be as low as reasonably practicable by 31 December 2025. wastes containing wood-preserving agents or other biocides and post- consumer wood wastes containing persistent organic pollutants wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019 manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013. pest infested waste
Waste code	Description
	production of such beverages only (wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa))
02 07 02	wastes from spirits distillation – spent grains, hops and whisky filter sheets and cloths, yeast and yeast like residues, sludge from production process, or malt husks malt sprouts, yeasts and yeast-like residues only
02 07 04	materials unsuitable for consumption or processing – biodegradable wastes from the processing of the raw materials used in the production of such beverages only (wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa))
02 07 05	sludges from on-site effluent treatment – sludges from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer other than those mentioned in 03 01 04
03 03	wastes from pulp, paper and cardboard production and processing
03 03 02	green liquor sludge
03 03 08	paper and cardboard – not allowed if any non-biodegradable coating or preserving substance is present
03 03 10	fibre rejects, fibre-, filler- and coating-sludges from mechanical separation
03 03 11	sludges from on-site effluent treatment other than those mentioned in 03 03 10
04	Wastes from the leather, fur and textile industries
04 02	wastes from the textile industry
04 02 10	organic matter from natural products, e.g. grease, wax
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 01	paper and cardboard packaging (excluding veneers, plastic coatings or laminates) certified to EN 13432 or equivalent certified compostable standard

Movimum augustit	Appual throughput shall not avaged 27 000 tapped
Maximum quantity	Annual throughput shall not exceed 27,900 tonnes
Exclusions	 Wastes having any of the following characteristics shall not be accepted: biodegradable wastes that is significantly contaminated with non- compostable or digestible contaminants, in particular plastic and litter shall be no more than 5% w/w and shall be as low as reasonably practicable by 31 December 2025. wastes containing wood-preserving agents or other biocides and post- consumer wood wastes containing persistent organic pollutants wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019 manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013. pest infested waste
Waste code	Description
15 01 03	wooden packaging – virgin timber only
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 02	wastes from physico/chemical treatments of waste (including dechromatation, decyanidation, neutralisation)
19 02 10	glycerol not designated as hazardous i.e. excludes EWC code 19 02 08
19 06	wastes from anaerobic treatment of waste
19 06 03	liquor from anaerobic treatment of municipal waste (from a process that accepts wastes which are listed in this table only) and made up of previously pasteurised and stabilised batches only
19 06 04	digestate from anaerobic treatment of source segregated biodegradable waste (from a process that accepts wastes which are listed in this table only) and made up of previously pasteurised and stabilised batches only
19 06 05	liquor from anaerobic treatment of animal and vegetable waste (from a process that accepts wastes which are listed in this table only) and made up of previously pasteurised and stabilised batches only
19 06 06	digestate from anaerobic treatment of animal and vegetable waste (previously digested sewage sludge only)
19 08	wastes from waste water treatment plants not otherwise specified
19 08 12	sludges from biological treatment of industrial waste water (from a process that treats wastes which are listed in this table only).
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 01	paper and cardboard (excluding veneers, plastic coatings or laminates) meeting EN 13432 or equivalent certified compostable or digestible packaging only
20 01 08	biodegradable kitchen and canteen waste containing compostable plastics meeting EN 13432 or equivalent certified compostable or digestible packaging (Category 3
	ABPR waste only)

Table S2.3 Permitted waste types and quantities for anaerobic digestion		
Maximum quantity	Annual throughput shall not exceed 27,900 tonnes	
Exclusions	 Wastes having any of the following characteristics shall not be accepted: biodegradable wastes that is significantly contaminated with non- compostable or digestible contaminants, in particular plastic and litter shall be no more than 5% w/w and shall be as low as reasonably practicable by 31 December 2025. wastes containing wood-preserving agents or other biocides and post- consumer wood wastes containing persistent organic pollutants wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019 manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013. pest infested waste 	
Waste code	Description	
20 01 38	untreated wood where no non-biodegradable coating or preserving substance is present	
20 02	garden and park wastes (including cemetery waste)	
20 02 01	biodegradable waste	
20 03	other municipal wastes	
20 03 02	waste from markets – allowed only if source segregated biodegradable fractions e.g. plant material, fruit and vegetables	

Table S2.4 Permitted waste types and quantities for composting in closed systems		
Maximum quantity	Annual throughput shall not exceed 50,000 tonnes.	
Exclusions	 Wastes having any of the following characteristics shall not be accepted: biodegradable wastes that is significantly contaminated with non- compostable or digestible contaminants, in particular plastic and litter shall be no more than 1% w/w and shall be as low as reasonably practicable by 31 December 2025. waste consisting solely or mainly of dusts (except sawdust), powders or loose fibres hazardous wastes wastes that are in liquid form wastes containing wood-preserving agents or other biocides and treated wood and post-consumer wood wastes containing persistent organic pollutants wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019 manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013. pest infested waste 	
Waste code	Description	
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing	

Maximum quantity	Annual throughput shall not exceed 50,000 tonnes.
Exclusions	 Wastes having any of the following characteristics shall not be accepted: biodegradable wastes that is significantly contaminated with non- compostable or digestible contaminants, in particular plastic and litter shall be no more than 1% w/w and shall be as low as reasonably practicable by 31 December 2025. waste consisting solely or mainly of dusts (except sawdust), powders or loose fibres hazardous wastes wastes that are in liquid form wastes containing wood-preserving agents or other biocides and treated wood and post-consumer wood wastes containing persistent organic pollutants wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019 manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013. pest infested waste
Waste code	Description
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 02	animal-tissue waste
02 01 03	plant-tissue waste
02 01 06	animal faeces, urine and manure (including spoiled straw) only
02 01 07	wastes from forestry (biodegradable only)
02 01 99	wastes not otherwise specified – spent mushroom compost from commercial mushroom growing only
02 02	wastes from the preparation and processing of meat, fish and other foods of animal origin
02 02 01	sludges from washing and cleaning, peeling, centrifuging and separation including wash waters and sludges from secondary food processing or the cook chill sector
02 02 02	animal-tissue waste
02 02 03	materials unsuitable for consumption or processing
02 03	wastes from fruit, vegetables, cereals, edible oils, cocoa, coffee, tea and tobacco preparation and processing; conserve production; yeast and yeast extract production, molasses preparation and fermentation
02 03 01	sludges from washing, cleaning peeling, centrifuging and separation (including sludge from production of edible fats and oils, seasoning residues, molasses residues, residues from production of potato, corn or rice starch only)
02 04	wastes from sugar processing
02 04 01	soil from cleaning and washing beet
02 04 03	sludges from on-site effluent treatment (biodegradable only)
02 05	wastes from the dairy products industry
02 05 01	materials unsuitable for consumption or processing (biodegradable only)
02 05 02	sludges from on-site effluent treatment (biodegradable only)
02 06	wastes from the baking and confectionery industry

Annual throughput shall not exceed 50,000 tonnes. Wastes having any of the following characteristics shall not be accepted:
 biodegradable wastes that is significantly contaminated with non- compostable or digestible contaminants, in particular plastic and litter shall be no more than 1% w/w and shall be as low as reasonably practicable by 31 December 2025. waste consisting solely or mainly of dusts (except sawdust), powders or loose fibres hazardous wastes wastes that are in liquid form wastes containing wood-preserving agents or other biocides and treated wood and post-consumer wood wastes containing persistent organic pollutants wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019 manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013. pest infested waste
Description
materials unsuitable for consumption or processing (biodegradable only)
sludges from on-site effluent treatment (biodegradable only)
wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
wastes from washing, cleaning and mechanical reduction of raw materials – biodegradable wastes from the processing of the raw materials used in the production of such beverages only (wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa))
wastes from spirits distillation – spent grains, hops and whisky filter sheets and cloths, yeast and yeast like residues, sludge from production process, or malt husks malt sprouts, yeasts and yeast-like residues only
materials unsuitable for consumption or processing – biodegradable wastes from the processing of the raw materials used in the production of such beverages only (wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa))
sludges from on-site effluent treatment – sludges from the production of alcoholic and non–alcoholic beverages (except coffee, tea and cocoa)
Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
wastes from wood processing and the production of panels and furniture
waste bark and cork – virgin timber only
sawdust, shavings, cuttings, wood and particle board other than those mentioned in 03 01 04 – virgin timber only
wastes from pulp, paper and cardboard production and processing
waste bark and wood – virgin timber only
fibre rejects only – virgin timber only

Maximum quantity	Annual throughput shall not exceed 50,000 tonnes.
Exclusions	 Wastes having any of the following characteristics shall not be accepted: biodegradable wastes that is significantly contaminated with non- compostable or digestible contaminants, in particular plastic and litter shall be no more than 1% w/w and shall be as low as reasonably practicable by 31 December 2025. waste consisting solely or mainly of dusts (except sawdust), powders or loose fibres hazardous wastes wastes that are in liquid form wastes containing wood-preserving agents or other biocides and treated wood and post-consumer wood wastes containing persistent organic pollutants wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019 manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013. pest infested waste
Waste code	Description
04 02	Waste from the textile industry
04 02 10	organic matter from natural products (un-dyed and untreated only)
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 01	paper and cardboard packaging (excluding veneers, plastic coatings or laminates) certified to EN 13432 or equivalent certified compostable standard
15 01 03	wooden packaging – virgin timber only
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 02	wood, glass and plastic
17 02 01	wood – allowed if biodegradable material only, with no chemical additives or preservative, and no persistent organics present. Untreated wood only. Not allowed if treated, for example contains veneers, other coatings or preserving substances.
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 05	wastes from aerobic treatment of solid wastes
19 05 03	off-specification compost from a composting process that accepts waste input types listed in this table, made up of previously sanitised batches only
19 06	wastes from anaerobic treatment of waste
19 06 03	liquor from anaerobic treatment of municipal waste from a process that accepts waste input types listed in this table or anaerobic digestion permit, and made up of previously pasteurised and stabilised batches only
19 06 04	digestate from anaerobic treatment of municipal waste from a process that accepts waste input types listed in this table or anaerobic digestion permit, and made up of previously pasteurised and stabilised batches only

	d waste types and quantities for composting in closed systems
Maximum quantity	Annual throughput shall not exceed 50,000 tonnes.
Exclusions	 Wastes having any of the following characteristics shall not be accepted: biodegradable wastes that is significantly contaminated with non- compostable or digestible contaminants, in particular plastic and litter shall be no more than 1% w/w and shall be as low as reasonably practicable by 31 December 2025. waste consisting solely or mainly of dusts (except sawdust), powders or loose fibres hazardous wastes wastes that are in liquid form wastes containing wood-preserving agents or other biocides and treated wood and post-consumer wood wastes containing Japanese Knotweed or other invasive plant species listed in the Invasive Species (Amendment etc.) (EU Exit) Regulations 2019 manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013. pest infested waste
Waste code	Description
19 06 05	liquor from anaerobic treatment of animal and vegetable waste from a process that accepts waste input types listed in this table or anaerobic digestion permit, and made up of previously pasteurised and stabilised batches only
19 06 06	digestate from anaerobic treatment of animal and vegetable waste from a process that accepts waste input types listed in this table or anaerobic digestion permit, and made up of previously pasteurised and stabilised batches only
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 01	paper and cardboard (excluding veneers, plastic coatings or laminates) certified to EN 13432 or equivalent certified compostable packaging only
19 12 07	wood other than that mentioned in 19 12 06
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions
20 01	separately collected fractions (except 15 01)
20 01 01	paper and cardboard (excluding veneers, plastic coatings or laminates) meeting EN 13432 or equivalent certified compostable packaging only
20 01 08	compostable kitchen and canteen waste – containing compostable plastics certified to EN 13432 or equivalent certified compostable only (Category 3 ABPR waste only)
20 01 25	edible oil and fat
20 01 38	wood other than that mentioned in 20 01 37 – Allowed if biodegradable material only, with no chemical additives or preservative, and no persistent organics present. Non treated wood waste. Not allowed if any non-biodegradable coating or preserving substance present.
20 02	garden and park wastes (including cemetery waste)
20 02 01	biodegradable waste (plant matter only)
20 03	other municipal wastes
20 03 02	waste from markets (biodegradable only)

Maximum quantity	Annual throughput shall not exceed 15,000 tonnes.
Maximum quantity Exclusions	 Annual throughput shall not exceed 15,000 tonnes. Wastes having any of the following characteristics shall not be accepted: separately collected loads of plastic unless the whole load is certified compostable to BS EN13432 co-mingled green and food waste containing more than 5% w/w plastic, unless the plastic is certified compostable to BS EN 13432 food wastes containing more than 5% w/w plastic unless there is sufficient technology to remove non-compostable plastic prior to treatment from package food waste to a processing limit of 1% w/w or decreasing year on year by 2025. wastes containing persistent organic pollutants wastes containing Japanese Knotweed or other invasive plant species listed in the Alien Invasive Species Regulations 2014 manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013.
Waste code	Description
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing
02 01 03	plant-tissue waste
02 01 06	animal faeces, urine and manure (including spoiled straw) only
02 01 07	wastes from forestry (biodegradable only)
02 01 99	wastes not otherwise specified – spent mushroom compost from commercial mushroom growing only
02 07	wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa)
02 07 01	wastes from washing, cleaning and mechanical reduction of raw materials – biodegradable wastes from the processing of the raw materials used in the production of such beverages only (wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa))
02 07 02	wastes from spirits distillation – spent grains, hops and whisky filter sheets and cloths, yeast and yeast like residues, sludge from production process, or malt husks, malt sprouts, yeasts and yeast-like residues only
02 07 04	materials unsuitable for consumption or processing – biodegradable wastes from the processing of the raw materials used in the production of such beverages only (wastes from the production of alcoholic and non-alcoholic beverages (except coffee, tea and cocoa))
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork – virgin timber only

Maximum quantity	Annual throughput shall not exceed 15,000 tonnes.
Exclusions	 Wastes having any of the following characteristics shall not be accepted: separately collected loads of plastic unless the whole load is certified compostable to BS EN13432 co-mingled green and food waste containing more than 5% w/w plastic, unless the plastic is certified compostable to BS EN 13432 food wastes containing more than 5% w/w plastic unless there is sufficient technology to remove non-compostable plastic prior to treatment from package food waste to a processing limit of 1% w/w or decreasing year on year by 2025. wastes containing wood-preserving agents or other biocides and post-consumer wood wastes containing Japanese Knotweed or other invasive plant species listed in the Alien Invasive Species Regulations 2014 manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013.
Waste code	Description
03 01 05	sawdust, shavings, cuttings, wood and particle board other than those mentioned in 03 01 04 – virgin timber only
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood – virgin timber only
03 03 10	fibre rejects only – virgin timber and biodegradable only
04	Wastes from the leather, fur and textile industries
04 02	wastes from the textile industry
04 02 10	organic matter from natural products (un-dyed and untreated only)
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 01	paper and cardboard packaging (excluding veneers, plastic coatings or laminates) certified to EN 13432 or equivalent certified compostable standard
15 01 03	wooden packaging – virgin timber only
17	Construction and demolition wastes (including excavated soil from contaminated sites)
17 02	wood, glass and plastic
17 02 01	wood – allowed if biodegradable material only, with no chemical additives or preservative, and no persistent organics present. Untreated wood only. Not allowed if treated, for example contains veneers, other coatings or preserving substances.
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 05	wastes from aerobic treatment of solid wastes
19 05 03	off-specification compost from a composting process that accepts waste input types listed in this table, made up of previously sanitised and stabilised batches only
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified

Table S2.5 Permitte	d waste types and quantities for composting in open systems				
Maximum quantity	Annual throughput shall not exceed 15,000 tonnes.				
Exclusions	 Wastes having any of the following characteristics shall not be accepted: separately collected loads of plastic unless the whole load is certified compostable to BS EN13432 co-mingled green and food waste containing more than 5% w/w plastic, unless the plastic is certified compostable to BS EN 13432 food wastes containing more than 5% w/w plastic unless there is sufficient technology to remove non-compostable plastic prior to treatment from package food waste to a processing limit of 1% w/w or decreasing year on year by 2025. wastes containing wood-preserving agents or other biocides and post-consumer wood wastes containing Japanese Knotweed or other invasive plant species listed in the Alien Invasive Species Regulations 2014 manures, slurries and spoiled bedding and straw from farms where animals have notifiable diseases as stipulated in the Animal By-Products (Enforcement) (England) Regulations 2013. 				
Waste code	Description				
19 12 01	paper and cardboard (excluding veneers, plastic coatings or laminates) certified to EN 13432 or equivalent certified compostable packaging only				
19 12 07	wood other than that mentioned in 19 12 06				
20	Municipal wastes (household waste and similar commercial, industrial and institutional wastes) including separately collected fractions				
20 01	separately collected fractions (except 15 01)				
20 01 01	paper and cardboard (excluding veneers, plastic coatings or laminates) meeting EN 13432 or equivalent certified compostable packaging only				
20 01 38	wood other than that mentioned in 20 01 37				
20 02	garden and park wastes (including cemetery waste)				
20 02 01	biodegradable waste (plant matter only)				
20 03	other municipal wastes				
20 03 02	waste from markets – biodegradable source segregated fractions only				

Table S2.6 Permitte	Table S2.6 Permitted waste types and quantities for use in biomass drying facility				
Maximum quantity	The total quantity of waste accepted at the site for the purpose of biomass drying shall be less than 5,000 tonnes a year.				
Waste code	Description				
02	Wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing, food preparation and processing				
02 01	wastes from agriculture, horticulture, aquaculture, forestry, hunting and fishing				
02 01 03	plant-tissue waste				
02 01 07	wastes from forestry				
03	Wastes from wood processing and the production of panels and furniture, pulp, paper and cardboard				

Table S2.6 Permitte	d waste types and quantities for use in biomass drying facility
Maximum quantity	The total quantity of waste accepted at the site for the purpose of biomass drying shall be less than 5,000 tonnes a year.
Waste code	Description
03 01	wastes from wood processing and the production of panels and furniture
03 01 01	waste bark and cork (no chemical treatments applied)
03 01 05	sawdust, shavings, cuttings, wood, particle board and veneer [1] other than those mentioned in 03 01 04 (no chemical treatments applied).
03 03	wastes from pulp, paper and cardboard production and processing
03 03 01	waste bark and wood (no chemical treatments applied)
15	Waste packaging, absorbents, wiping cloths, filter materials and protective clothing not otherwise specified
15 01	packaging (including separately collected municipal packaging waste)
15 01 03	wooden packaging (visibly clean wooden packaging including pallets, no chemical treatments applied).
19	Wastes from waste management facilities, off-site waste water treatment plants and the preparation of water intended for human consumption and water for industrial use
19 12	wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified
19 12 07	wood other than that mentioned in 19 12 06 (segregated visibly clean single waste wood streams where no chemical treatments have been applied)
Note [1] - Only venee	er that is fixed to the board.

Schedule 3 – Emissions and monitoring

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitorin g frequency	Monitoring standard or method
Existing med	um combustion	plant which are	engines fue	lled on biog	as (1 MW to	5 MW)
A1 CHP and Boiler Stack [note 1]	CHP engine 1 (1.5MWth) [note 2]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Average over sample period	Annual	BS EN 14792
		Sulphur dioxide	350 mg/m ³ [note 3]			BS EN 14791 or CEN TS 17021
		Sulphur dioxide	162 mg/m ³ [note 4]			or by calculation based on fuel sulphur
		Carbon monoxide	1400 mg/m ³			BS EN 15058
		Total VOCs	No limit set			BS EN 12619
(1.5	CHP engine 2 (1.5MWth) [note 2]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Average over sample period	Annual	BS EN 14792
		Sulphur dioxide	350 mg/m ³ [note 3]			BS EN 14791 or CEN TS 17021
		Sulphur dioxide	162 mg/m ³ [note 4]			or by calculation based on fuel sulphur
		Carbon monoxide	1400 mg/m ³			BS EN 15058
		Total VOCs	No limit set			BS EN 12619
	CHP engine 3 (1.5MWth) [note 2]	Oxides of Nitrogen (NO and NO ₂ expressed as NO ₂)	500 mg/m ³	Average over sample period	Annual	BS EN 14792
		Sulphur dioxide	350 mg/m ³ [note 3]			BS EN 14791 or CEN TS 17021
		Sulphur dioxide	162 mg/m ³ [note 4]			or

Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitorin g frequency	Monitoring standard or method
						by calculation based on fuel sulphur
		Carbon monoxide	1400 mg/m ³			BS EN 15058
		Total VOCs	No limit set			BS EN 12619
	Biomass boiler (0.65MWth) [note 2]	No parameter set	No limit set			
A2 (As shown as "IVC Biofilter" on site plan in schedule 7)	IVC Biofilter	Hydrogen sulphide	No limit set	Average over sample period	Once every 6 months	CEN TS 13649 for sampling NIOSH 6013 for analysis
")		Ammonia	20 mg/m ³	Average over sample period	Once every 6 months	EN ISO 21877
		Odour concentration	No limit set		Once every 6 months	BS EN 13725
A3 (As shown as "AD Biofilter" on site plan in schedule 7)	AD Biofilter	Hydrogen sulphide	No limit set	Average over sample period	Once every 6 months	CEN TS 13649 for sampling NIOSH 6013 for analysis
")		Ammonia	20 mg/m ³	Average over sample period	Once every 6 months	EN ISO 21877
		Odour concentration	No limit set		Once every 6 months	BS EN 13725
Auxiliary Boiler	Auxiliary boiler (1MWth)	No parameter set	No limit set			
Pressure relief valves	Digesters/Diges tate storage tanks	Biogas release and operational events	No limit set	Recorded duration and frequency	Daily inspection	
Vents from tank(s)	Oil/Fuel Storage tanks	No parameter set	No limit set			

Note 1 - Emission Point shown in Figure 3 of the report referenced 'An Assessment using Dispersion Modelling of the Impact of Emissions from the Combined Heat and Power Units at Rosehill Farm', dated: 07/02/17.

Note 2 - These emission limits are based on normal operating conditions and load - temperature 0°C (273 K); pressure 101.3 kPa and oxygen 5% (for gas engines burning biogas) and oxygen 3% (for medium combustion plants other than engines and gas turbines burning biogas).

Table S3.1 Point source emissions to air – emission limits and monitoring requirements						
Emission point ref. & location	Source	Parameter	Limit (including unit)	Reference period	Monitorin g frequency	Monitoring standard or method
Note 3 - This emission limit applies until 31 December 2029, unless the gas engine is replaced. Note 4 - This emission limit applies from 1 January 2030, unless otherwise advised by the Environment Agency.						

Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Anaerobic Dige	estion			
Digester feed	рН	As described in	As described in	Process monitoring to be
(digestion process)	Alkalinity		site operating techniques	recorded using a SCADA system where relevant.
processy	Temperature			
	Hydraulic loading rate			
	Organic loading rate			
	Volatile fatty acids concentration			
	Ammonia			
	Liquid /foam level			
Biogas in digester	Flow	Continuous	In accordance with EU weights and measures Regulations	Process monitoring to be recorded using a SCADA system where relevant.
	Methane	Continuous	None specified	Gas monitors to be calibrated every 6 months or in accordance with the manufacturer's recommendations.
	CO ₂	Continuous	None specified	
	O ₂	Continuous	None specified	
	Hydrogen sulphide	Daily	None specified	
	Pressure	Continuous	None specified	
Digestate batch	Volatile fatty acids concentration	One sample at the end of each batch	As described in site operating techniques	
	Ammonia	(hydraulic retention time) cycle.		
Digesters and storage tanks	Integrity checks	Weekly	Visual assessment	In accordance with design specification and tank integrity checks.
Digesters	Agitation /mixing	Continuous	Systems controls.	Records maintained in daily operational records.
	Tank capacity and sediment assessment	Once a year	Yearly lithium or thermal imaging	In accordance with design specification and tank integrity checks.
Waste reception building or	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary.

Table S3.2 Proc	cess monitoring	requirements		
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
area; Digesters and storage tanks				
Diffuse emissions from all sources identified in the Leak Detection and Repair (LDAR) programme	VOCs including methane	Every 6 months or otherwise agreed in accordance with the LDAR programme	BS EN 15446 In accordance with the LDAR programme	Monitoring points as specified in a DSEAR risk assessment and LDAR programme. Limit as agreed with the Environment Agency as a percentage of the overall gas production.
CHP engine stack	VOCs including methane	Annually	BS EN 12619	Total annual VOCs emissions from the CHP engine(s) to be calculated and submitted to the Environment Agency.
	Exhaust gas temperature		Traceable to National Standards	
	Exhaust gas pressure		Traceable to National Standards	
	Exhaust gas water vapour content		BS EN 14790-1	Unless gas is dried before analysis of emissions.
	Exhaust gas oxygen		BS EN 14789	
	Exhaust gas flow		BS EN 16911-1	
Meteorological conditions	Wind speed, air temperature, wind direction	Continuous	Method as specified in management system	Conditions to be recorded in operational diary and records. Equipment shall be calibrated on a 4 monthly basis, in accordance with manufacturer's recommendations or as agreed in writing by the Environment Agency.
Pressure relief valves and vacuum	Gas pressure	Continuous	Recording using a SCADA system	Continuous gas pressure shall be monitored.
systems	Re-seating	Weekly inspection	Visual	Continuous gas pressure shall be monitored. Operator must ensure that valves are re-seated after release in accordance with the manufacturer's design.

Emission	Parameter	Monitoring	Monitoring	Other specifications
point reference or source or description of point of measurement		frequency	standard or method	
	Inspection, maintenance, calibration, repair and validation	Following foaming or overtopping or at 3 yearly intervals whichever is sooner	Written scheme of examination in accordance with condition 1.1.1	After a foaming event or sticking, build-up of debris, obstructions or damage, operator must ensure that pressure relief valve function remains within designed gas pressure in accordance with the manufacturer's design by suitably trained and qualified personnel.
	Inspection calibration and validation report	In accordance with design and construction specifications or after over topping or foaming event		Operator must ensure that valves are re-seated after release, after a foaming event or sticking, build-up of debris, obstructions or damage. Operator must ensure that PRV function remains within designed operation gas pressure in accordance with the manufacturer's design by suitably trained/qualified personnel.
				Inspection, calibration and validation report. In accordance with industry Approved Code of Practice
Storage lagoons and storage tanks	Volume	Daily	Visual or flow metre measurement	750 mm freeboard must be maintained for storage lagoons. Records of volume must be maintained.
Open and Clos	ed System Comp	osting		
Stock piles prior to	Temperature	Daily prior to processing	Temperature probe	Monitoring equipment shall be available on site and used as
composting including screened and shredded material	Moisture	Daily prior to processing	Industry grab test as a minimum, or oven drying in	required to maintain aerobic conditions and ensure compliance with theses standard rules.
			accordance with BS EN 13040	Equipment shall be calibrated on a 4 monthly basis, or as agreed in writing by the
	C:N Total Organic Carbon and Total Kjeldahl Nitrogen	On acceptance or as agreed in an approved odour management plan	Total Organic Carbon using recognised industry method Total Kjeldahl Nitrogen in	Environment Agency. Uncontrolled self-heating and decomposition must be prevented in accordance with the Accident Management Plan and/or Fire Prevention Plan.
			accordance with BS EN 13654-1	Process shall be controlled in accordance with permit

Emission point reference or source or	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
description of point of measurement				
				condition 3.3 and the Odour Management Plan.
				Sampling of waste shall be in accordance with EN14899.
				Anaerobic conditions shall be prevented.
	Fly infestation or pupa formation	Daily – for stock piles in storage prior to preparation and stock piles in sanitisation stage	Visual inspection	Records of fly count must be maintained as necessary and infested waste should be rejected in accordance waste acceptance procedures and in accordance with permit condition 3.7.
		Weekly – for stock piles in stabilisation stage		
Representative internal core for each composting batch during sanitisation and stabilisation stage	Temperature	Daily during sanitisation stage. Weekly during stabilisation stage	Temperature probe Temperature probe shall record core waste temperature and probe placement must be sufficient to record temperature uniformly.	Monitoring equipment shall be available on site and used as required to maintain aerobic conditions and ensure compliance with this permit. Equipment shall be calibrated on a 4 monthly basis, or as agreed in writing by the Environment Agency. Process shall be controlled in accordance with permit condition 3.3 and the Odour Management Plan.
	Moisture	At least daily during sanitisation stage Weekly during stabilisation stage	Industry grab test as a minimum, or oven drying in accordance with BS EN 13040	Sampling of waste shall be in accordance with EN14899. Anaerobic conditions shall be prevented.
	C:N Total Organic Carbon and Total Kjeldahl Nitrogen	Weekly or as agreed in an approved odour management plan	Total Organic Carbon using recognised industry method Total Kjeldahl Nitrogen in accordance with BS EN 13654-1	

Table S3.2 Proc	cess monitoring	requirements	1	1
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
Representative internal core for each composting batch during further maturation stage	Temperature	Once per week	Temperature probe Temperature probe shall record core waste temperature and probe placement must be sufficient to record temperature uniformly	Process shall be controlled in accordance with permit condition 3.3 and the Odour Management Plan.
	Moisture	Once per week	Industry grab test as a minimum, or oven drying in accordance with BS EN 13040	
Internal core for oversize storage piles	Temperature	Once per week	Temperature probe As specified in the Environmental Management System	Uncontrolled self-heating and decomposition must be prevented in accordance permit condition 3.8, the Fire Prevention Plan and/or Accident Management Plan.
Leachate and dirty water storage capacity	Level	At least daily	Visual or capacity measurement	750 mm freeboard must be maintained for storage lagoons. Records of volume must be maintained.
Waste reception building; Storage tank(s); Maturation area	Odour	Daily	Olfactory monitoring	Odour detection at the site boundary
Storage tank(s)	Integrity checks	Weekly	Visual assessment	
Odour abateme	ent plant			
Open biofilters	1	1	1	1
Biofilter 1	Surface condition (signs of vegetation and channelling)	Daily	Visual assessment	Odour abatement plant shall be regularly checked and maintained to ensure appropriate temperature and moisture content.

Table S3.2 Pro	cess monitoring	requirements		
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
	Gas temperature – inlet	Daily	Temperature probe / Traceable to national standards	Odour abatement plant shall be managed in accordance with permit condition 3.3, the odour management plan and
	Biofilter media moisture	Daily	Moisture meter, Grab test, oven drying or recognised industry method	manufacturer's recommendations. Equipment shall be calibrated on a 4 monthly basis, or as
	Thatching /compaction	Weekly	Back pressure	agreed in writing by the Environment Agency.
	Gas flow rate – inlet	Continuous	Gas flow meter / EN 16911-1 and MID for EN 16911-1	
	pH (biofilter drainage effluent)	Daily	pH metre or litmus paper	
	Efficiency assessment	Annual	Media health, air-flow distribution and emission removal efficiency (BS EN 13725 for odour removal)	
	Hydrogen sulphide – inlet and outlet gas stream	Every 6 months or as agreed in writing by the Environment Agency.	As agreed in the odour management plan and approved by the Environment Agency	Action levels to be agreed on completion of IC10 as approved in writing by the Environment Agency. Action levels to be achieved in accordance with permit
	Ammonia –	Every 6 months	As agreed in the	condition 3.2 and the odour management plan. Action levels to be agreed on
	inlet	or as agreed in writing by the Environment Agency.	As agreed in the odour management plan and approved by the Environment Agency	completion of IC10 as approved in writing by the Environment Agency. Action levels to be achieved in
				accordance with permit condition 3.2 and the odour management plan.

Table S3.2 Process monitoring requirements				
Emission point reference or source or description of point of measurement	Parameter	Monitoring frequency	Monitoring standard or method	Other specifications
	Odour concentration – inlet and outlet gas stream	Every 6 months or as agreed in writing by the Environment Agency.	BS EN 13725	Action levels to be agreed on completion of IC10 as approved in writing by the Environment Agency. Action levels to be achieved in
				accordance with permit condition 3.2 and the odour management plan.

Schedule 4 – Reporting

Parameters, for which reports shall be made, in accordance with conditions of this permit, are listed below.

Parameter	Emission or monitoring point/reference	Reporting period	Period begins
Emissions to air from CHP engines Parameters as required by condition 3.5.1.	A1	Every 12 months	1 January
Emissions to air from odour abatement plant Parameters as required by condition 3.5.1.	A2, A3	Every 6 months	1 January, 1 July
Process monitoring – digester tank integrity Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.2	Every 5 years from the date of commissioning or as per the manufacturer's recommendation, whichever is sooner	1 January
Process monitoring – under and over pressure relief systems Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.2	Every 12 months Yearly summary report of over- pressure and under- pressure events detailing mass balance release	1 January
Process monitoring – leak detection and repair (inspection, calibration and maintenance) Parameters as required by condition 3.5.1	As specified in schedule 3 table S3.2	Every 3 years	1 January
Non-compostable contamination removal efficiency Parameters as required by conditions 2.3.4 and 2.3.7		Every 12 months Yearly report of detailing contamination removal efficiency and progress with plastic reduction contamination	1 January
Total annual VOCs emissions from gas engines (calculated)	As specified in schedule 3 table S3.2	Every 12 months	1 January

Table S4.2 Annual production/treatment	
Parameter	Units
Electricity generated	MWh
Biomethane generated	tonnes or m ³
Whole digestate	tonnes

Table S4.2 Annual production/treatment	
Parameter	Units
Liquid digestate	tonnes or m ³
Solid digestate	tonnes
Recovered outputs	tonnes

Table S4.3 Performance parameters		
Parameter	Frequency of assessment	Units
Water usage	Annually	tonnes or m ³
Energy usage	Annually	MWh
Raw material usage	Annually	tonnes or m ³
Emergency flare operation	Annually	hours
CHP engine usage	Annually	hours
CHP engine efficiency	Annually	%
Auxiliary boiler usage	Annually	hours

Table S4.4 Reporting forms		
Media/parameter	Reporting format	Date of form
Air	Form air 1 or other form as agreed in writing by the Environment Agency	10/03/2022
Process monitoring	Form process 1 or other form as agreed in writing by the Environment Agency	10/03/2022
Water usage	Form water usage 1 or other form as agreed in writing by the Environment Agency	10/03/2022
Energy usage	Form energy 1 or other form as agreed in writing by the Environment Agency	10/03/2022
Other performance indicators	Form performance 1 or other form as agreed in writing by the Environment Agency	10/03/2022
Waste returns	E-waste Return Form or other form as agreed in writing by the Environment Agency	

Schedule 5 – Notification

These pages outline the information that the operator must provide.

Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

If any information is considered commercially confidential, it should be separated from non-confidential information, supplied on a separate sheet and accompanied by an application for commercial confidentiality under the provisions of the EP Regulations.

Part A

Permit Number	
Name of operator	
Location of Facility	
Time and date of the detection	

(a) Notification requirements for any malfunction, breakdown or failure of equipment or techniques, accident, or emission of a substance not controlled by an emission limit which has caused, is causing or may cause significant pollution		
To be notified within 24 hours of detection		
Date and time of the event		
Reference or description of the location of the event		
Description of where any release into the environment took place		
Substances(s) potentially released		
Best estimate of the quantity or rate of release of substances		
Measures taken, or intended to be taken, to stop any emission		
Description of the failure or accident.		

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value and uncertainty	
Date and time of monitoring	

(b) Notification requirements for the breach of a limit	
To be notified within 24 hours of detection unless otherwise specified below	
Measures taken, or intended to be taken, to stop the emission	

Time periods for notification following detection of a breach of a limit	
Parameter	Notification period

(c) Notification requirements for the detection of any significant adverse environmental effect	
To be notified within 24 hours of detection	
Description of where the effect on the environment was detected	
Substances(s) detected	
Concentrations of substances detected	
Date of monitoring/sampling	

Part B – to be submitted as soon as practicable

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission	
The dates of any unauthorised emissions from the facility in the preceding 24 months.	

Name*	
Post	
Signature	
Date	

* authorised to sign on behalf of the operator

Schedule 6 – Interpretation

"accident" means an accident that may result in pollution.

"ADQP" means Anaerobic Digestion Quality Protocol

"anaerobic digestion" means a process of controlled decomposition of biodegradable materials under managed conditions where free oxygen is absent, at temperatures suitable for naturally occurring mesophilic or thermophilic anaerobes and facultative anaerobe bacteria species, which convert the inputs to a methanerich biogas and whole digestate.

"animal waste" means any waste consisting of animal matter that has not been processed into food for human consumption.

"application" means the application for this permit, together with any additional information supplied by the operator as part of the application and any response to a notice served under Schedule 5 to the EP Regulations.

"authorised officer" means any person authorised by the Environment Agency under section 108(1) of The Environment Act 1995 to exercise, in accordance with the terms of any such authorisation, any power specified in section 108(4) of that Act.

"Best available techniques" means the most effective and advanced stage in the development of activities and their methods of operation which indicates the practical suitability of particular techniques for providing the basis for emission limit values and other permit conditions designed to prevent and, where that is not practicable, to reduce emissions and the impact on the environment as a whole:

(a) 'techniques' includes both the technology used and the way in which the installation is designed, built, maintained, operated and decommissioned;

(b) 'available techniques' means those developed on a scale which allows implementation in the relevant industrial sector, under economically and technically viable conditions, taking into consideration the costs and advantages, whether or not the techniques are used or produced inside the Member State in question, as long as they are reasonably accessible to the operator;

(c) 'best' means most effective in achieving a high general level of protection of the environment as a whole.

"Biodegradable" means a material is capable of undergoing biological anaerobic or aerobic degradation leading to the production of CO₂, H₂O, methane, biomass, and mineral salts, depending on the environmental conditions of the process.

"building" means a construction that has the objective of providing sheltering cover and minimising emissions of noise, particulate matter, odour and litter.

"Capacity" means the potential capacity and not historical or actual production levels or throughput. This means that the designed capacity is the maximum rate at which the site can operate. Biological treatment of waste usually takes place over more than one day, so the physical daily capacity can be calculated by dividing the maximum quantity of waste that could be subject to biological treatment at any one time by the minimum residence time. For in-vessel composting, the residence time for sanitisation should be calculated separately and then aggregated to the complete composting time. Further guidance '<u>RGN2: Understanding the meaning of regulated facility Definition of regulated facility</u>' is available.

"channelled emissions" means the emissions of pollutants into the environment through any kind of duct, pipe, stack, etc. This also includes emissions from open top biofilters.

"combined heat and power" (CHP) or Cogeneration means the simultaneous generation in one process of thermal energy and electrical or mechanical energy.

"competent persons and resources" means that a technically competent person accredited to a relevant scheme must attend site and record their attendance, and that all roles and responsibilities are clearly stated in the management systems along with records of operatives' training. See the guidance on the <u>level of competence and duration of attendance</u>

'compostable plastics' means waste containing packaging or non-packaging items (or both) with a valid certificate of conformity to EN 13432 or an equivalent standard for compostable and digestible items, the certificate issued by an independent certification body capable of fully biodegrading by a biological process to create compost or digest.

"compost" means a solid particulate material that is the result of composting, which has been sanitised and stabilised, and which confers beneficial effects when added to soil, used as a component of growing media or used in another way in conjunction with plants.

"compostable plastics" means plastics that are certified to meet the standards of EN 13432, EN 14995 or equivalent and is capable of breaking down by microbial digestion to create compost.

"composting" means the managed biological decomposition of biodegradable waste organic materials, under conditions that are predominantly aerobic and that allow the development of thermophilic temperatures as a result of biologically produced heat and that result in compost.

"composting batch" means an identifiable quantity of material that progresses through the composting system and when fully processed has similar characteristics throughout. For composting systems that operate on a continuous- or plug-flow basis, batches will be taken to mean a series of "portions of production".

"diffuse emissions" mean non-channelled emissions (e.g. of dust, organic compounds, odour) which can result in 'area' sources (e.g. tanks) or 'point' sources (e.g. pipe flanges). This also includes emissions from open-air windrow composting.

"digestate" means material resulting from an anaerobic digestion process.

'direct discharge' means discharge to a receiving water body

"disposal" means any of the operations provided for in Annex I to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"emissions of substances not controlled by emission limits" means emissions of substances to air, water or land from the activities, either from the emission points specified in schedule 3 or from other localised or diffuse sources, which are not controlled by an emission limit.

"emissions to land" includes emissions to groundwater.

"EP Regulations" means The Environmental Permitting (England and Wales) Regulations SI 2016 No.1154 and words and expressions used in this permit which are also used in the Regulations have the same meanings as in those Regulations.

"existing medium combustion plant" means an MCP which was put into operation before 20 December 2018.

"generator" means any combustion plant which is used to generate electricity, excluding mobile, unless it is connected to the national grid.

"groundwater" means all water, which is below the surface of the ground in the saturation zone and in direct contact with the ground or subsoil.

"impermeable surface" means a surface or pavement constructed and maintained to a standard sufficient to prevent the transmission of liquids beyond the pavement surface.

"Industrial Emissions Directive" means DIRECTIVE 2010/75/EU OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 24 November 2010 on industrial emissions, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

"Leak detection and repair (LDAR) programme" means a structured approach to reduce fugitive emissions of organic compounds by detection and subsequent repair or replacement of leaking components. Currently, sniffing (described by EN 15446) and optical gas imaging methods are available for the identification of leaks as set out in BAT 14 and section 6.6.2 of the Waste Treatment BAT Conclusions.

"maturation" means optional period of treatment or storage of separated fibre digestate under predominantly aerobic conditions.

"MCERTS" means the Environment Agency's Monitoring Certification Scheme.

"medium combustion plant" or "MCP" means a combustion plant with a rated thermal input equal to or greater than 1 MW but less than 50 MW.

"Medium Combustion Plant Directive" or "MCPD" means Directive 2015/2193/EU of the European Parliament and of the Council on the limitation of emissions of certain pollutants into the air from medium combustion plants, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

"new medium combustion plant" means an MCP which was put into operation after 20 December 2018. This includes replacement MCP and Generators.

"operational area" means any part of a facility used for the handling, storing and treatment of waste.

"operator" means in relation to a regulated facility:

- (a) the person who has control over the operation of the regulated facility,
- (b) if the regulated facility has not yet been put into operation, the person who will have control over the regulated facility when it is put into operation, or
- (c) if a regulated facility authorised by an environmental permit ceases to be in operation, the person who holds the environmental permit

"pests" means Birds, Vermin and Insects.

"pollution" means emissions as a result of human activity which may-

- (a) be harmful to human health or the quality of the environment,
- (b) cause offence to a human sense,
- (c) result in damage to material property, or
- (d) impair or interfere with amenities and other legitimate uses of the environment.

"quarter" means a calendar year quarter commencing on 1 January, 1 April, 1 July or 1 October.

"recovery" means any of the operations provided for in Annex II to Directive 2008/98/EC of the European Parliament and of the Council on waste.

"Representative internal" – means representative monitoring at a point internally of the windrows that will give a representative assessment of temperature. Note: Larger windrows will require more bespoke temperature equipment to adequate assess temperature profiles accurately.

"sanitisation" means the actively managed and intensive stage of composting, lasting for at least 5 days, characterised by high oxygen demand and temperatures of over 55°C, during which biological processes, together with conditions in the composting mass, eradicate human and animal pathogens or reduce them to acceptably low levels. The operator also needs to meet ABPR requirements.

"sealed drainage system" in relation to an impermeable surface, means a drainage system with impermeable components which does not leak and which will ensure that:

- no liquids will run off the surface otherwise than via the system
- all liquids entering the system are collected in a sealed sump, except where liquids may be lawfully discharged to foul sewer.

"specified generator" means a group of generators other than excluded between 1 and 50 megawatts or less than 50 megawatts as defined in Schedule 25B(2) of SI 2018 No.110 of the EPR.

"stable, stabilised" means the degree of processing and biodegradation at which the rate of biological activity has slowed to an acceptably low and consistent level and will not significantly increase under favourable, altered conditions. "stabilisation stage" means the stage of composting following sanitisation, during which biological conditions in the composting mass, give rise to compost that is nominally stable.

"treated wood" means any wood that has been chemically treated (e.g. to enhance or alter the performance of the original wood). Treatments may include penetrating oils, tar oil preservatives, water-borne preservatives, organic-based preservatives, boron and organo-metallic based preservatives, boron and halogenated flame retardants and surface treatments (including paint and veneer).

"VOC" means Volatile organic compounds as defined in Article 3(45) of Directive 2010/75/EU – 'volatile organic compound' means any organic compound as well as the fraction of creosote, having at 293.15K a vapour pressure of 0.01 kPa or more, or having a corresponding volatility under the particular conditions of use.

"Waste code" means the six digit code referable to a type of waste in accordance with the List of Wastes (England)Regulations 2005, or List of Wastes (Wales) Regulations 2005, as appropriate, and in relation to hazardous waste, includes the asterisk.

"Waste Framework Directive" or "WFD" means Waste Framework Directive 2008/98/EC of the European Parliament and of the Council on waste, as read in accordance with Schedule 1A to the Environmental Permitting (England and Wales) Regulations 2016.

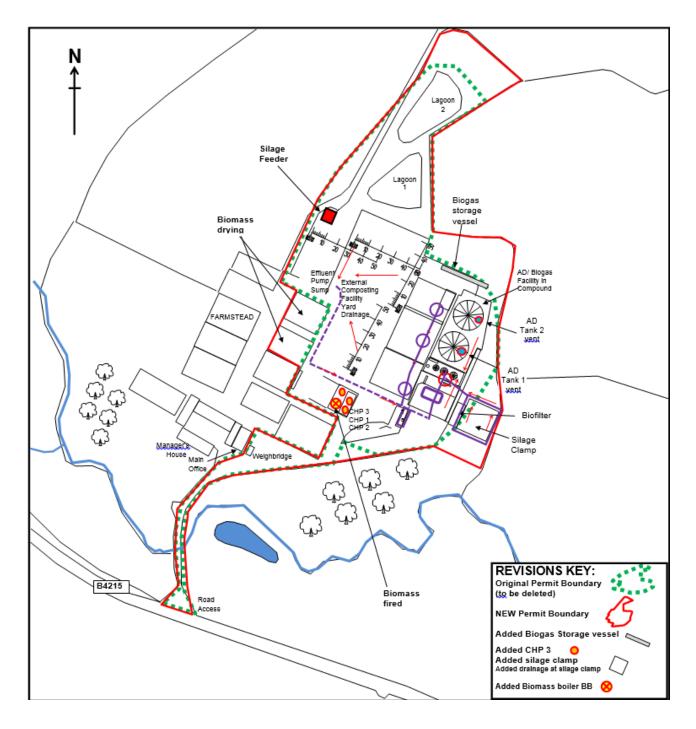
Where a minimum limit is set for any emission parameter, for example pH, reference to exceeding the limit shall mean that the parameter shall not be less than that limit.

Unless otherwise stated, any references in this permit to concentrations of substances in emissions into air means:

- in relation to emissions from combustion processes, the concentration in dry air at a temperature of 273K, at a pressure of 101.3 kPa and with an oxygen content of 3% dry for liquid fuels and gaseous fuels, 6% dry for solid fuels; and/or
- in relation to emissions from non-combustion sources, the concentration at a temperature of 273K and at a pressure of 101.3 kPa, with no correction for water vapour content.

"year" means calendar year ending 31 December.

Schedule 7 – Site plan



END OF PERMIT

1. Rated thermal input (MW) of the medium combustion plant.	CHP engine 1 – 1.5 MWth
	CHP engine 2 – 1.5 MWth
	CHP engine 3 – 1.5 MWth
	Auxiliary boiler 1 – 1 MWth
2. Type of the medium combustion plant (diesel	Combined heat and power engines
engine, gas turbine, dual fuel engine, other engine or other medium combustion plant).	Boiler
3. Type and share of fuels used according to the fuel categories laid down in Annex II.	Biogas
4. Date of the start of the operation of the medium combustion plant or, where the exact date of the start of the operation is unknown, proof of the fact that the operation started before 20 December 2018.	Prior to 20 December 2018
5. Sector of activity of the medium combustion plant or the facility in which it is applied (NACE code.	D35.1.1
6. Expected number of annual operating hours of the medium combustion plant and average load in use.	CHP engine – 8,760 hours
	Auxiliary boiler – <500 hours
7. Where the option of exemption under Article 6(3) or Article 6(8) is used, a declaration signed by the operator that the medium combustion plant will not be operated more than the number of hours referred to in those paragraphs.	-
8. Name and registered office of the operator and, in the case of stationary medium combustion plants, the address where the plant is located.	Operator: MF Bennion Limited
	Registered office:
	Rose Hill Farm
	Dymock
	Gloucestershire
	GL18 2EF
	Site address:
	As above

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